

State of California
California Energy Commission
Minutes of the November 8, 2017, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair
Karen Douglas, Commissioner
J. Andrew McAllister, Commissioner

David Hochschild, Commissioner
Janea A. Scott, Commissioner

THE COMMISSION WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. AMENDED ARGUS COGENERATION EXPANSION (ACE) PROJECT (86-AFC-01C). Possible approval of an order terminating Energy Commission jurisdiction over the ash landfill, separating the landfill from the ACE facility, which ceased operations in 2014, and allowing ACE to continue use of an on-site diesel generator. The order would approve changes to Conditions of Certification Soil Resources 8-4 D, Visual Resources 3-8, and air quality conditions related to the existing on-site diesel generator. Proposed changes to the license would not result in significant environmental impacts, and the facility would remain non-operational and in compliance with all applicable laws, ordinances, regulations, and standards. Contact: Keith Winstead.
 - b. BLACK ROCK 1, 2, AND 3 PROJECT (FORMERLY SALTON SEA GEOTHERMAL UNIT 6) (02-AFC-02C). Possible approval of an order to terminate the Energy Commission certification for the Black Rock 1, 2, and 3 project, as amended, and non-collection of compliance fees to be effective as of June 30, 2017. This project was licensed on December 17, 2003, as the Salton Sea Geothermal Unit 6 project. Contact: Dale Rundquist.
 - c. THE SOLAR FOUNDATION. Proposed resolution approving Agreement 150-17-008 with The Solar Foundation for a \$2,500 sponsorship contract to support the research and implementation of the 2017 Solar Jobs Census, including California-specific data. (ERPA funding) Contact: Rachel Grant Kiley.

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 1. The vote was unanimous (5-0).

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (Staff presentation: 5 minutes)

Item 2 was held. No action taken.

3. WEST COAST CODE CONSULTANTS, INC. Proposed resolution approving Agreement 700-17-002 with West Coast Code Consultant, Inc., for a \$3 million contract to provide the STEP Division with assistance in compliance oversight for approved project modifications or emergency power plant facility changes for a contract cycle of three years. (EFLCF funding) Contact: Christine Root. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 3. The vote was unanimous (5-0).

4. SENATE BILL 350: DOUBLING ENERGY EFFICIENCY SAVINGS BY 2030 FINAL COMMISSION REPORT. Proposed resolution approving the final Commission report – "Senate Bill 350: Doubling Energy Efficiency Savings by 2030." Senate Bill 350 directed the Energy Commission to establish statewide annual targets that achieve a doubling of energy efficiency savings in electricity and natural gas end uses by 2030, so long as the targets are cost-effective, feasible, and do not adversely impact public health and safety. Contact: Martha Brook. (Staff Presentation: 10 minutes)

Commissioner McAllister moved and Commissioner Hochschild seconded approval of Item 4. The vote was unanimous (5-0).

5. APPLIANCE ENERGY EFFICIENCY REGULATIONS - COMPUTERS and LIGHT-EMITTING DIODE (LED) LAMPS. Proposed resolution adopting regulations in Title 20, §1602, 1605.3, and 1606 to modify existing appliance efficiency regulations for computers and LED lamps and finding that the regulations are exempt from the California Environmental Quality Act. The changes include the following: for computers, the regulations would modify the definition of discrete graphics processing unit (GPU) and create a new allowance for a discrete GPU that is packaged on the same substrate as the central processing unit and make minor modifications to the definitions for mobile gaming systems and mobile workstations; for LED lamps, the regulations would allow manufacturers to report estimated LED lamp lifetime pending completion of lifetime testing for state-regulated LED lamps and the LED versions of state-regulated small diameter directional lamps, in alignment with the Code of Federal Regulations. Contact: Patrick Saxton. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Douglas seconded approval of Item 5. The vote was unanimous (5-0).

6. IMPROVING PERFORMANCE AND COST EFFECTIVENESS OF WIND ENERGY TECHNOLOGIES, GFO-16-310. This solicitation sought proposals to fund applied research and development projects that develop technologies, tools and strategies that reduce technological and economic barriers to upgrading, repowering, and expanding wind power generation and enable higher wind energy contribution to the in-state electricity mix. (EPIC funding) Contact: Rizaldo Aldas. (Staff presentation: 5 minutes)
 - a. JASON COTRELL, dba RCAM TECHNOLOGIES. Proposed resolution approving Agreement EPC-17-023 with Jason Cotrell, dba RCAM Technologies for a \$1,249,982 grant to develop and test a reinforced concrete additive manufacturing (RCAM) technology for building low cost ultra-tall wind turbine towers onsite at the wind plant. Taller wind turbine towers capture more wind energy from faster winds aloft, but are constrained by logistics and transportation size and weight. If successful, the scaled-up and commercialized RCAM manufacturing technology will enable fabrication of a wind turbine tower onsite, in one day at half of the cost of conventional steel towers, and reduce the

levelized cost of wind generated electricity in a low wind speed site by 11 percent.

Commissioner Scott moved and Commissioner Douglas seconded approval of Item 6. The vote was unanimous (5-0).

7. DEVELOPMENT, DEMONSTRATION AND DEPLOYMENT OF ENVIRONMENTALLY AND ECONOMICALLY SUSTAINABLE BIOMASS-TO ENERGY SYSTEMS FOR THE FOREST AND FOOD WASTE SECTOR, GFO-15-325. This solicitation sought proposals to fund applied research and development and technology demonstration and deployment activities to advance bioenergy electricity generation. Consistent with the *Electric Program Investment Charge Proposed 2015-2017 Triennial Investment Plan* and in coordination with the CPUC, the solicitation addresses three bioenergy funding initiatives. (EPIC funding) Contact: Gina Barkalow. (Staff presentation: 5 minutes)

- a. LYTEK INTERNATIONAL LIMITED. Proposed resolution approving Agreement EPC-17-022 with Lystek International Limited for a \$1,589,163 grant to construct and demonstrate an innovative technology to pretreat organic wastes prior to anaerobic digestion at a wastewater treatment facility to enhance operational efficiencies and increase biogas production. The pretreatment technology will be constructed as skid-mounted mobile units for processing source-separated organic wastes and bio solids and will have cogeneration capabilities thereby further increasing the energy generation from the wastewater treatment system.

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 7. The vote was unanimous (5-0).

8. DISCUSSION OF ENERGY COMMISSION PROGRESS RE: IMPLEMENTATION OF THE CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (Senate Bill [SB] 350). Staff presentation regarding progress on implementation of SB 350 requirements, including administration of the California Renewables Portfolio Standard Program, review of local publicly-owned electric utility integrated resource plans; revision of Commission data collection regulations to improve demand forecasting; identification of progress in meeting the bill's goals of 50 percent renewables procurement and doubling of energy efficiency; implementation of widespread transportation electrification; and preparation and publication of the study required by Public Resources Code §25327 regarding barriers for low-income customers to energy efficiency, weatherization, and renewable energy investments. Contact: Michael Sokol. (Staff presentation: 5 minutes)

Staff presented Information Item 8.

9. **Minutes:** Possible approval of the October 11, 2017, business meeting minutes.

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 9. The vote was unanimous (5-0).

10. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.

11. **Chief Counsel's Report:** None.

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12. **Executive Director's Report.** None.
13. **Public Adviser's Report.** The Public Adviser's office gave a report.
14. **Public Comment:** Bill Leighty, Alaska (AK) Applied Sciences, Inc.

Appearances:

(*by telephone)

Giyan A. Senaratne, West Coast Code Consultants

Chris Kimball, West Coast Code Consultants

*Jason Cotrell, RCAM Technologies

*Mo Li, UC Irvine

*Sandy Butterfield, Boulder Wind Consulting

Jim Dunbar, Lystek

David G. Riley, Lystek

*Isaac Fevier, NRDC

Alexandria McBride, Information Technology

Industry Council, ITI

Charles Kim, Southern California Edison

*Brandon Fitchett, EPRI

*Bill Leighty Alaska (AK) Applied Sciences, Inc.

*Owen Roberts, NREL

There being no further business, the meeting was adjourned.

Respectfully submitted,

Cody Goldthrite

CODY GOLDTHRITE
Secretariat

